

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	120	(simultaneous\$3 near2 (program\$6 or transfer\$4)) near3 (flash or EEPROM or nonvolatile)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:42
L2	24708437	@ad<"20030926"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:50
L3	1	(Lin near Yi-wen).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:55
L4	7	(Zhang near2 Changsong).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:55
L5	87	(Jefferson near2 David).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:55
L6	2	(Joyce near2 Juju).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:56
L7	2	(Mansur near2 Dan).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:56
L8	91	3 or 4 or 5 or 6 or 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:56
L9	0	3 and 4 and 5 and 6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 15:57

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L10	0	transfer* same parallel* same external and integrat*	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:01
L11	0	transfer* same parallel* same external same integrat*	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:00
L12	0	transfer* same parallel* same sequent*	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:01
L13	1933	transfer\$4 same parallel\$4 same sequent\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:01
L14	669	transfer\$4 same parallel\$5 same external same integrat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:02
L15	565	2 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:02
L16	48	transfer\$4 same parallel\$5 same external same integrat\$4 same sequent\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:03
L17	43	2 and 16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:03
L18	273	(simultaneous\$3 near2 (program\$6 or writ\$4 or stor\$4 or read\$4)) near2 (flash or EEPROM or nonvolatile)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:05
L19	0	17 and 18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:05

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L20	30375	"711"/\$.cls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:05
L21	23	17 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/16 16:05



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- #7 (((transfer\* and (simultaneous\* or parallel\*))<in>metadata) <AND> (((EEPROM or EPROM or flash or PROM) and (program\* or writ\*) and (parallel or simultaneous\*)<IN>metadata)) <AND> (((sequential\* and (load\* or writ\* or read\*))<IN>metadata) <AND> (((IC or module or chip) and (transfer\* or writ\*) and (parallel\* or simultaneous\*)<IN>metadata)))





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**EEPROM EPROM flash transfer program simultaneous parallel sequential**

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André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

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This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

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## Pen computing: a technology overview and a vision

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### ↑ ABSTRACT

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historical background and the technical advances that begin making Pen Computing a reality, the new paradigms created by Pen Computing will be explained and discussed. Handwriting recognition, mobility and global information access are other central topics. This is followed by a categorization and an overview of current and future systems using pens as their primary user interface component.

### ↑ CITINGS 11

[Susan L. Miertschin , Cheryl L. Willis, Mobile computing in the freshman computer literacy course what impact?, Proceedings of the 5th conference on Information technology education, October 28-30, 2004, Salt Lake City, UT, USA](#)

[Allan Christian Long, Jr., Improving gestures and interaction techniques for pen-based user interfaces, CHI 98 conference summary on Human factors in computing systems, p.58-59, April 18-23, 1998, Los Angeles, California, United States](#)

[William Thimbleby, A novel pen-based calculator and its evaluation, Proceedings of the third Nordic conference on Human-computer interaction, p.445-448, October 23-27, 2004, Tampere, Finland](#)

[Marcellin Buisson , Isabelle Sallagoity , Sylvie Athènes , Christophe Mertz, From human movement](#)

analysis to interface design: applications to writing and gesture based user interface, Proceedings of the 15th French-speaking conference on human-computer interaction on 15eme Conference Francophone sur l'Interaction Homme-Machine, p.224-227, November 25-28, 2003, Caen, France

Stéphane Chatty, Patrick Lecoanet, Pen computing for air traffic control, Proceedings of the SIGCHI conference on Human factors in computing systems: common ground, p.87-94, April 13-18, 1996, Vancouver, British Columbia, Canada

Ivan Poupyrev, Makoto Okabe, Shigeaki Maruyama, Haptic feedback for pen computing: directions and strategies, CHI '04 extended abstracts on Human factors in computing systems, April 24-29, 2004, Vienna, Austria

Allan Christian Long, Jr., James A. Landay, Lawrence A. Rowe, Implications for a gesture design tool, Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit, p.40-47, May 15-20, 1999, Pittsburgh, Pennsylvania, United States

A. Chris Long, James A. Landay, Lawrence A. Rowe, Helping designers create recognition-enabled interfaces, Multimodal interface for human-machine communication, World Scientific Publishing Co., Inc., River Edge, NJ, 2002

A. Chris Long, Jr., James A. Landay, Lawrence A. Rowe, Joseph Michiels, Visual similarity of pen gestures, Proceedings of the SIGCHI conference on Human factors in computing systems, p.360-367, April 01-06, 2000, The Hague, The Netherlands

Won-Sung Sohn, Jae-Kyung Kim, Seung-Kyu Ko, Soon-Bum Lim, Yoon-Chul Choy, Context-based free-form annotation in XML documents, International Journal of Human-Computer Studies, v.59 n.3, p.257-285, September 2003

Réjean Plamondon, Sargur N. Srihari, On-Line and Off-Line Handwriting Recognition: A Comprehensive Survey, IEEE Transactions on Pattern Analysis and Machine Intelligence, v.22 n.1, p.63-84, January 2000

## ↑ INDEX TERMS

### Primary Classification:

H. Information Systems

↳ H.5 INFORMATION INTERFACES AND PRESENTATION (I.7)

↳ H.5.2 User Interfaces (D.2.2, H.1.2, I.3.6)

↳ **Subjects:** Input devices and strategies (e.g., mouse, touchscreen)

### Additional Classification:

I. Computing Methodologies

↳ I.5 PATTERN RECOGNITION

### General Terms:

Design, Theory

### ↑ Collaborative Colleagues:

André Meyer: Martin Haker

Thomas Martinetz

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